



CONTACTOR, AC-3 4 KW/400 V, 1 NO, AC 24 V, 50/60 HZ, 3-POLE, SIZE S00, SCREW CONNECTION

|                                                                                     |                 |
|-------------------------------------------------------------------------------------|-----------------|
| product brand name                                                                  | SIRIUS          |
| Product designation                                                                 | power contactor |
| General technical data:                                                             |                 |
| Degree of pollution                                                                 | 3               |
| Mechanical service life (switching cycles)                                          |                 |
| • of the contactor typical                                                          | 30 000 000      |
| • of the contactor with added electronics-compatible auxiliary switch block typical | 5 000 000       |
| • of the contactor with added auxiliary switch block typical                        | 10 000 000      |
| Protection class IP                                                                 |                 |
| • on the front                                                                      | IP20            |
| • of the terminal                                                                   | IP20            |
| Equipment marking                                                                   |                 |
| • acc. to DIN EN 61346-2                                                            | Q               |
| • acc. to DIN EN 81346-2                                                            | Q               |
| Main circuit:                                                                       |                 |
| Number of poles for main current circuit                                            | 3               |
| Number of NC contacts for main contacts                                             | 0               |
| Number of NO contacts for main contacts                                             | 3               |
| Operating current                                                                   |                 |
| • at AC-1                                                                           |                 |
| — at 400 V at ambient temperature 40 °C                                             | 22 A            |
| Rated value                                                                         |                 |

|                                                                                                  |              |
|--------------------------------------------------------------------------------------------------|--------------|
| — up to 690 V at ambient temperature 40 °C<br>Rated value                                        | 22 A         |
| — up to 690 V at ambient temperature 60 °C<br>Rated value                                        | 20 A         |
| • at AC-3<br>— at 400 V Rated value                                                              | 9 A          |
| • at AC-4 at 400 V Rated value                                                                   | 8.5 A        |
| <b>Operating current with 1 current path</b>                                                     |              |
| • at DC-1<br>— at 24 V Rated value                                                               | 20 A         |
| — at 110 V Rated value                                                                           | 2.1 A        |
| • at DC-3 at DC-5<br>— at 24 V Rated value                                                       | 20 A         |
| — at 110 V Rated value                                                                           | 0.15 A       |
| <b>Operating current with 2 current paths in series</b>                                          |              |
| • at DC-1<br>— at 24 V Rated value                                                               | 20 A         |
| — at 110 V Rated value                                                                           | 12 A         |
| • at DC-3 at DC-5<br>— at 110 V Rated value                                                      | 0.35 A       |
| — at 24 V Rated value                                                                            | 20 A         |
| <b>Operating current with 3 current paths in series</b>                                          |              |
| • at DC-1<br>— at 24 V Rated value                                                               | 20 A         |
| — at 110 V Rated value                                                                           | 20 A         |
| • at DC-3 at DC-5<br>— at 110 V Rated value                                                      | 20 A         |
| — at 24 V Rated value                                                                            | 20 A         |
| <b>Active power loss at AC-3 at 400 V for rated value of the operating current per conductor</b> | 0.7 W        |
| <b>Control circuit/ Control:</b>                                                                 |              |
| <b>Type of voltage of the control supply voltage</b>                                             | AC           |
| <b>Control supply voltage with AC</b>                                                            |              |
| • at 50 Hz Rated value                                                                           | 24 V         |
| • at 60 Hz Rated value                                                                           | 24 V         |
| • Rated value                                                                                    | 50 Hz        |
| <b>Control supply voltage frequency 2 Rated value</b>                                            | 60 Hz        |
| <b>Operating range factor control supply voltage rated value of the magnet coil with AC</b>      |              |
| • at 50 Hz                                                                                       | 0.8 ... 1.1  |
| • at 60 Hz                                                                                       | 0.85 ... 1.1 |

**Auxiliary circuit:**

|                                                                                                                                                                              |                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Number of NC contacts</b> <ul style="list-style-type: none"><li>• for auxiliary contacts<ul style="list-style-type: none"><li>— instantaneous contact</li></ul></li></ul> | 0                                               |
| <b>Number of NO contacts</b> <ul style="list-style-type: none"><li>• for auxiliary contacts<ul style="list-style-type: none"><li>— instantaneous contact</li></ul></li></ul> | 1                                               |
| <b>Operating current at AC-15</b> <ul style="list-style-type: none"><li>• at 230 V Rated value</li><li>• at 400 V Rated value</li></ul>                                      | 6 A<br>3 A                                      |
| <b>Contact reliability of the auxiliary contacts</b>                                                                                                                         | 1 faulty switching per 100 million (17 V, 1 mA) |

**Short-circuit:**

|                                                                                                                                                                                                                                                                                                                                            |                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Design of the fuse link</b> <ul style="list-style-type: none"><li>• for short-circuit protection of the main circuit<ul style="list-style-type: none"><li>— with type of assignment 1 required</li><li>— with type of assignment 2 required</li></ul></li><li>• for short-circuit protection of the auxiliary switch required</li></ul> | fuse gL/gG: 35 A<br>fuse gL/gG: 20 A<br>fuse gL/gG: 10 A |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|

**Installation/ mounting/ dimensions:**

|                                                                                                                                                           |                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Mounting type</b> <ul style="list-style-type: none"><li>• Side-by-side mounting</li></ul>                                                              | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022<br>Yes |
| <b>Height</b>                                                                                                                                             | 57.5 mm                                                                                       |
| <b>Width</b>                                                                                                                                              | 45 mm                                                                                         |
| <b>Depth</b>                                                                                                                                              | 72 mm                                                                                         |
| <b>Required spacing</b> <ul style="list-style-type: none"><li>• for grounded parts<ul style="list-style-type: none"><li>— at the side</li></ul></li></ul> | 6 mm                                                                                          |

**Connections/ Terminals:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type of electrical connection</b> <ul style="list-style-type: none"><li>• for main current circuit</li><li>• for auxiliary and control current circuit</li></ul>                                                                                                                                                                                                                                                                                           | screw-type terminals<br>screw-type terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Type of connectable conductor cross-section</b> <ul style="list-style-type: none"><li>• for main contacts<ul style="list-style-type: none"><li>— solid</li><li>— single or multi-stranded</li><li>— finely stranded with core end processing</li></ul></li><li>• for AWG conductors for main contacts</li><li>• for auxiliary contacts<ul style="list-style-type: none"><li>— solid</li><li>— finely stranded with core end processing</li></ul></li></ul> | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> )<br>2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), max. 2x (0,75 ... 4 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 1x 12<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |

- for AWG conductors for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14), 1x 12

#### Mechanical data:

Size of contactor S00

#### Ambient conditions:

Installation altitude at height above sea level maximum 2 000 m

Ambient temperature

- during operation -25 ... +60 °C

#### Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery

[Type Examination](#)



CCC



CSA



UL



UR



EG-Konf.

[Special Test Certificate](#)



ABS



DNV



GL



LRS

#### Shipping Approval

#### other



PRS



RINA



RMRS

[Environmental Confirmations](#)

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#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

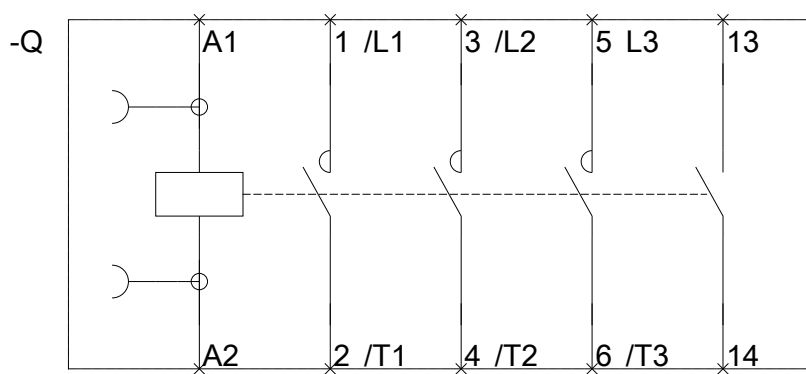
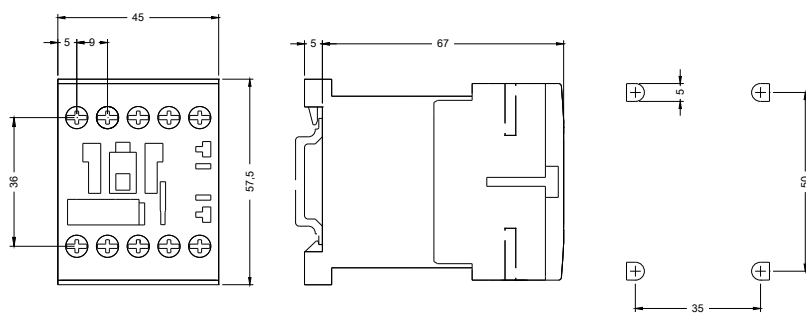
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10161AB01>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10161AB01>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT10161AB01&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10161AB01&lang=en)



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